

Tata LPK 1518 Tipper



SPECIFICATIONS OF TATA LPK 1518 TIPPER

ENGINE

Model	: CUMMINS B 180 20 EURO II
Type	: Water cooled direct injection diesel engine with turbo intercooler
No of Cylinders	: 6
Bore/Stroke	: 102 mm x 120 mm
Capacity	: 5883 cc
Max. Engine Output	: 132 kw (179 HP) at 2500 rpm
Max.Torque	: 650 Nm (66.2 mkg) at 1500
Compression Ratio	: 17.6 : 1
Firing Order	: 1-5-3-6-2-4
Air Filter	: Dry type remote mounted
Oil Filter	: Full flow spin -on paper type
Fuel Filter	: Two stage pre and fine filtration with water separator
Fuel Injection Pump	: MICO Rotary with built in timer
Governor	: Built in centrifugal type
Capacity of cooling	: 27lts
Crankcase oil capacity	: 14.2 Litres
Weight of Engine	: 413 KG dry
Radiator Frontal Area	: 4227 sq cm

FUEL TANK : 350 Litres

ELECTRICAL SYSTEM

System voltage	: 24 Volts
Battery	: 2x12 Volts 150 Ah
Alternator Capacity	: 75 Amps

CLUTCH

Type	: Single plate dry friction
Lining	: 352 mm pull type

GEAR BOX

Model	: TATA GBS 600 with PTO synchromesh on all forward gears
No of Gears	: 6 forward 1 reverse

GEAR RATIOS

1st	: 6.58
2nd	: 3.79
3rd	: 2.29
4th	: 1.49
5th	: 1
6th	: 0.77
Reverse	: 5.66

FRONT AXLE : Heavy duty forged I beam reverse Elliot type

REAR AXLE : Single reduction, hypoid gears, fully floating axle shafts

Ratio	: 5.857 : 1
Steering	: Integral hydraulic assisted power steering
Frame	: Ladder type heavy duty frame with rivetted/bolted cross members Side members are of channel section Depth :285 mm (max) Width :65 mm Frame Width :888 mm

BRAKES

Service Brake	: Fully duplicated, full air S-cam brake system
Brake Drum Diameter	: 410 mm
Lining Area	: Front : 2180 sq. cm Rear : 2470 sq. cm Total : 4650 sq. cm
Parking Brake Type	: Hand operated, spring actuated parking brake acting on rear wheels
Engine Exhaust Brake	: Electrically operated, coupled with service brakes

FRAME : Ladder type frame with riveted / bolted cross members, side members are of channel section

SUSPENSION

Type	: Semi elliptical leaf springs at front and rear
Spring Span	: Front - 1680 mm Rear - 1900 mm
Leaf Width	: Front - 70 mm Rear - 80 mm
Shock Absorber	: Hydraulic double acting telescopic type at front and rear

WHEELS AND TYRES

Tyres	: 11 R 22.5 - 16 PR (front and rear)
Wheel Rims	: 8.25 x 22.5
No of Wheels	: Front : 2 Rear : 4 Spare 1

PERFORMANCE

Max.Gradeability in 1 st Gear with standard gear box & rear axle	: 30 %
Max Geared Speed in Top Gear (with Std.Rear Axle)	: 105 Km/h
Minimum Turning Circle Dia in mm as per IS 9435	: 14400
Minimum Turning Clearance Circle in Dia in mm as per IS 9435	: 16090

CAB : All steel full forward control tilt cab.

MASS (KG)

Max. Permissible F.A.M	: 6000
Max. Permissible R.A.M	: 9000
Max. Permissible G.V.M	: 14900
Bare Chassis Kerb Mass with Cab (with Spare Wheel and Tools) as per IS : 9211	: 6900

CHASSIS DIMENSIONS (MM)

Wheel Base	: 3580
Track Front	: 1955
Track Rear	: 1817
Overall Length	: 6220
Max. Width	: 2440
Front Overhang	: 1515

LOAD BODY

Type	: FRONT END tipping gear, pivoted to the subframe at rear with heavy duty steel body. Tipper is provided with tail gate
Net inside Loading Space in meters (Length X Width X Height)	: 4.0 x 2.2 x 0.7
Volumetric Capacity	: 6 Cu.m.
Tipping Angle	: 50°

ADDITIONAL FITMENTS : Engine management system

CAUTION : Do not weld or drill on chassis frame

Indicative Specifications for reference only. Contents are subject to change.

For further details, please contact the address given below.

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